CAIT
Center for Advanced Infrastructure & Transportation
Rutgers, The State University of New Jersey

QUARTERLY PROGRESS REPORT

Project Title:	Technology Transfer @ CAIT 2006
RFP NUMBER: 200X-XXX	NJDOT RESEARCH PROJECT MANAGER: Lad Szalaj
TASK ORDER NUMBER: TO 185 / RU 4-26634	PRINCIPAL INVESTIGATOR Ali Maher/Patrick Szary
Project Starting Date: 1/1/2006 **Original** Project Ending Date: 12/31/2006 **Modified Completion Date:**	Period Covered: 4th Quarter 2006

Task #	Task	% of Total	Fixed Budget	% of Task this quarter	Cost this quarter	% of Task to date	Total cost to date
1	Meetings	2.6%	$ 1,300	0.0%	$ -	100.0%	$ 1,300
2	Quarterly Reporting	9.3%	$ 4,650	25.0%	$ 1,163	100.0%	$ 4,650
3	Fellowships	25.0%	$ 12,500	0.0%	$ -	100.0%	$ 12,500
4	Internships	8.0%	$ 4,000	0.0%	$ -	100.0%	$ 4,000
5	Student of the Year	1.5%	$ 750	100.0%	$ 750	100.0%	$ 750
6	Research Supervision	53.6%	$ 26,800	25.0%	$ 6,700	100.0%	$ 26,800
7		0.0%	$ -	0.0%	$ -	0.0%	$ -
8		0.0%	$ -	0.0%	$ -	0.0%	$ -
9		0.0%	$ -	0.0%	$ -	0.0%	$ -
10		0.0%	$ -	0.0%	$ -	0.0%	$ -
11		0.0%	$ -	0.0%	$ -	0.0%	$ -
12		0.0%	$ -	0.0%	$ -	0.0%	$ -
13		0.0%	$ -	0.0%	$ -	0.0%	$ -
14		0.0%	$ -	0.0%	$ -	0.0%	$ -
15		0.0%	$ -	0.0%	$ -	0.0%	$ -
16		0.0%	$ -	0.0%	$ -	0.0%	$ -
17		0.0%	$ -	0.0%	$ -	0.0%	$ -
18		0.0%	$ -	0.0%	$ -	0.0%	$ -
19		0.0%	$ -	0.0%	$ -	0.0%	$ -
20		0.0%	$ -	0.0%	$ -	0.0%	$ -
	TOTAL	100.0%	$ 50,000		$ 8,613		$ 50,000

Blue text is entered once at the beginning of the project

Green text is updated ever quarter

Black text is automatically updated or static

Project Objectives:

Recipients of UTC grants are encouraged to be innovative and creative as they develop their vision for the proposed Center. The planned activities include offering advanced degree programs, professional workshops, and serving as sponsor of a service network for members of the ***TIS*** community. The guiding vision must identify a component to build a self-sustaining network and establish new directions for research and education for the ***TIS*** community. An effective strategic plan, inclusive of timelines, identified outcomes, and deliverable products, is critical for the operational success of the newly established organization.

Project Abstract:

The theme of the Center for Advanced Infrastructure and Transportation (CAIT), is to be a catalyst for creating a multi-modal transportation infrastructure research and education paradigm that incorporates input from members of the ***TIS*** community. The Center will be active in ***TIS*** education, research, and technology transfer in the critical areas of safety, mobility, economic growth, human and natural environment, and national security; (envisioned by USDOT in the recently published USDOT Research and Development Plan.) The unique feature of the Center will be its focus on implementation of advanced and cutting-edge technologies, from broad and interdisciplinary sources, used for efficient maintenance and operation of multi-modal transportation infrastructure systems in high volume and heavily utilized intermodal corridors.

The ***TIS*** maintenance and operation theme will guide all educational, research, and technology transfer activities of the Center. The main criteria for success will be the implementation of goals and objectives that have been identified and will be presented in detail in the following sections of this plan.

1. Progress this quarter by task:

- First, second, third, and fourth center set of quarterly reports have been completed and submitted to NJDOT.
- Ongoing research supervision.
- Educational Advisory Committee and Mr. Rambod Hadidi was selected. Below please find a short bio:

Rambod Hadidi is a Ph.D. candidate at the school of engineering of Rutgers University. He received his bachelor's degree from Sharif University in Tehran, Iran (1999) and his Master's degree from Rutgers University (2003). He has been an instructor and a graduate research assistant at Rutgers University (2000-2006) and New Jersey Institute of Technology (1999-2000). He also served as a lecturer at the University of Texas at El Paso (2006). He is currently a research engineer at the Center for Advanced Infrastructure and Transportation (CAIT) at Rutgers University.

Mr. Hadidi's research interests focus on nondestructive testing, evaluation, and health monitoring of transportation infrastructure using various techniques, such as seismic methods and Ground Penetrating Radar (GPR). He has also been working on development of reliability based techniques in transportation engineering for various applications, such as backcalculation for Falling Weight Deflectometer (FWD) and Seismic Pavement Analyzer (SPA) data. His research interests also include in situ and laboratory characterization of infrastructure material properties, such as early age concrete bridge deck response and seasonal variation of pavement layer material properties. During his graduate studies, Mr. Hadidi authored/coauthored more than 15 publications and technical reports and has presented at several conferences and professional meetings.

Mr. Hadidi is a member of American Society of Civil Engineers (ASCE) and a registered professional engineer, with several years of experience on various transportation and geotechnical engineering projects. Mr. Hadidi is also the recipient of several awards including the New Jersey Department of Transportation Student of the Year Award (2003) and Tavakoli Academic Achievement Award of Sharif University (1999).

Mr. Hadidi is scheduled to present at the 86th Transportation Research Board (TRB) meeting.

2. Proposed activities for next quarter by task:

3. List of deliverables provided in this quarter by task (product date):

4. Progress on Implementation and Training Activities:
insert text here
5. Problems/Proposed Solutions:
insert text here

Total Project Budget	50,000
Modified Contract Amount:	
Total Project Expenditure to date	50,000
% of Total Project Budget Expended	100%

NJDOT Research Project Manager Concurrence: _____ Date: _____